CDF Operations

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October 25, 2004

All Experimenters' Meeting

Schedule

- CSL (consumer server logger) upgraded with goal of testing "parallel logger" scheme before end of shutdown
  - CSL is DAQ bottleneck at 20 MB/sec
  - Must exceed 30 MB/sec; preliminary tests indicate possible 35 MB/sec
  - Ultimately, rebuild CSL to achieve 60 MB/sec
- 400 Hz motor generator maintenance over last two weeks, including brush replacements
  - Still need to work on MG supplying power to silicon and muon systems
- COT baggies up and down and up…and slitted
  - SVT tower which was lost during shutdown recovered
  - Various single channel problems fixed or investigated
  - Endplugs are finally in
- Repair Suva™ (for COT endplate cooling) leak near tank in pit west alcove
- Since last week:
  - Flowing argon/ethane to muon chambers
  - East endplug in

Schedule

- This morning:
  - West endplug in
  - NW central arch in; NE central arch out (last of the CPR/CCR work to be done)
- Tomorrow:
  - West muon wall closed
  - Start west low β quad support installation
- November 5 or 8:
  - Close NE arch; CPR/CCR work done
  - Close north muon wall and east muon wall
  - Move forklift and support to east side
  - Start east low β quad support installation
- November 8–15
  - Solenoid checkout
  - COT Ar/CO_2 field on tests with no beam
- November 22: Shutdown done

Miscellany

- DAQ:
  - SVX cosmic ray run Friday
    - First since shutdown silicon near beginning of shutdown (silicon cool!)
    - Cannot read out L00 & ISL due to problem with ISL SRC (silicon readout controller); being investigated (but problem upstairs, not in detector)
  - CDF webserver replaced
  - CDF fileserver in process of being replaced; still need to move to final configuration
  - 64 new nodes of L3 installed on first floor! In process of water cooling these racks. Burn in has started
  - Slow controls software/PC upgrades well underway
- SVX/COT cooling
  - Isolation of COT volume from SVX volume in bore works well
  - Will eventually test SVX at -10° C. (with eventual goal of lessening radiation damage)
  - Installed plumbing to allow each silicon chiller to be valved into a test heat load—to diagnose faulty chiller

Miscellany

- COT:
  - New Faraday cages on HV side of all superlayers but innermost (2-8) allow lowering voltage threshold from 225 mV to 205 mV
  - Rebuilt recirculation pump
  - Installed "hooks" for filtering system, improved O_2 monitoring, and backup pump
  - HV on with N_2 in chamber; so far looks OK
- Central/Plug E-M Timing
  - Mostly done; cleaning up
  - Spare fibers need to be delivered and installed
- Solenoid Watt can vacuum work complete
- Installation of remote power cycling for all calorimeter power supplies (on crate-by-crate basis instead of rack-by-rack)